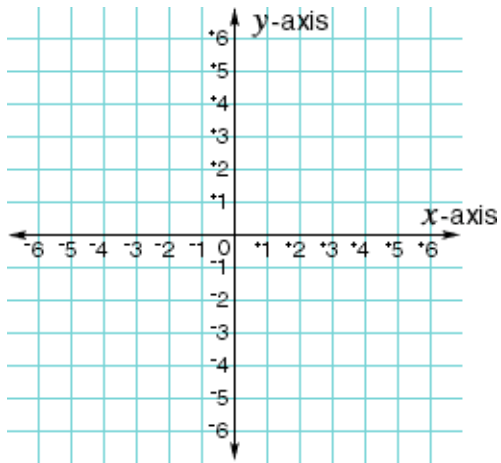


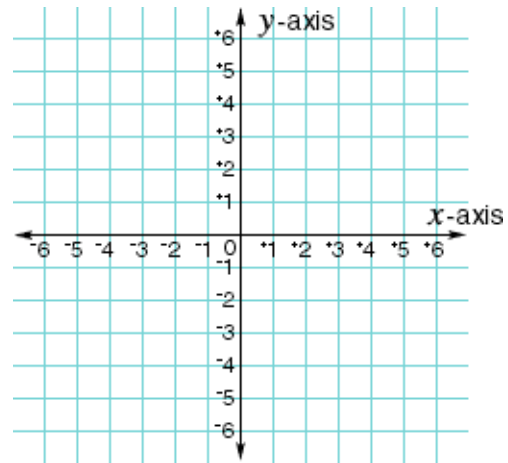
## Section 2-4: The Graph of $y = kx$

**Warm-up:** Graph the following.

1.  $y = -2x$



2.  $y = 2x$



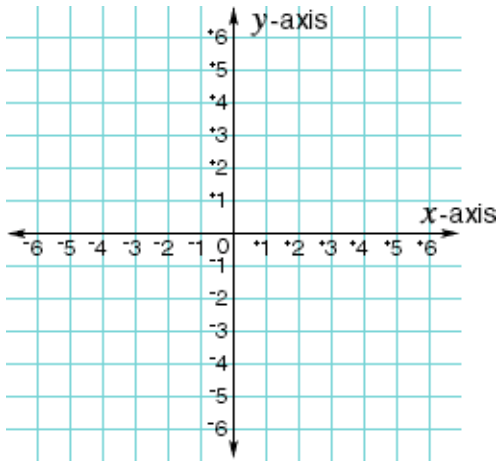
*Characteristics of the graphs:*

*Slope:*

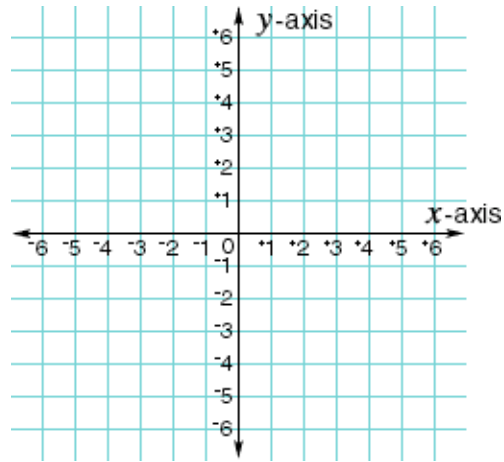
*Theorem:*

*Example 1:* Graph the following:

a.  $y = \frac{1}{4}x$



b.  $y = -3x$



*Example 2:* Find the slope of the line through the given points.

a.  $(5, -2), (3, 8)$

b.  $(12, 8), (6, -3)$

*Homework:*

***“The world is not dangerous because of those who do harm but because of those who look at it without doing anything.” – Albert Einstein***